Dr. Ravi Shankar

Pediatric Hemato-Oncology &
Bone Marrow Transplant Specialist

Medical Experience

- MBBS, MD (Pediatrics)
- Fellowship in Pediatric Hemato-Oncology & BMT
- 17+ years of medical experience
- Formerly associated with Indian Army
- Extensive experience in treating pediatric blood disorders and cancers

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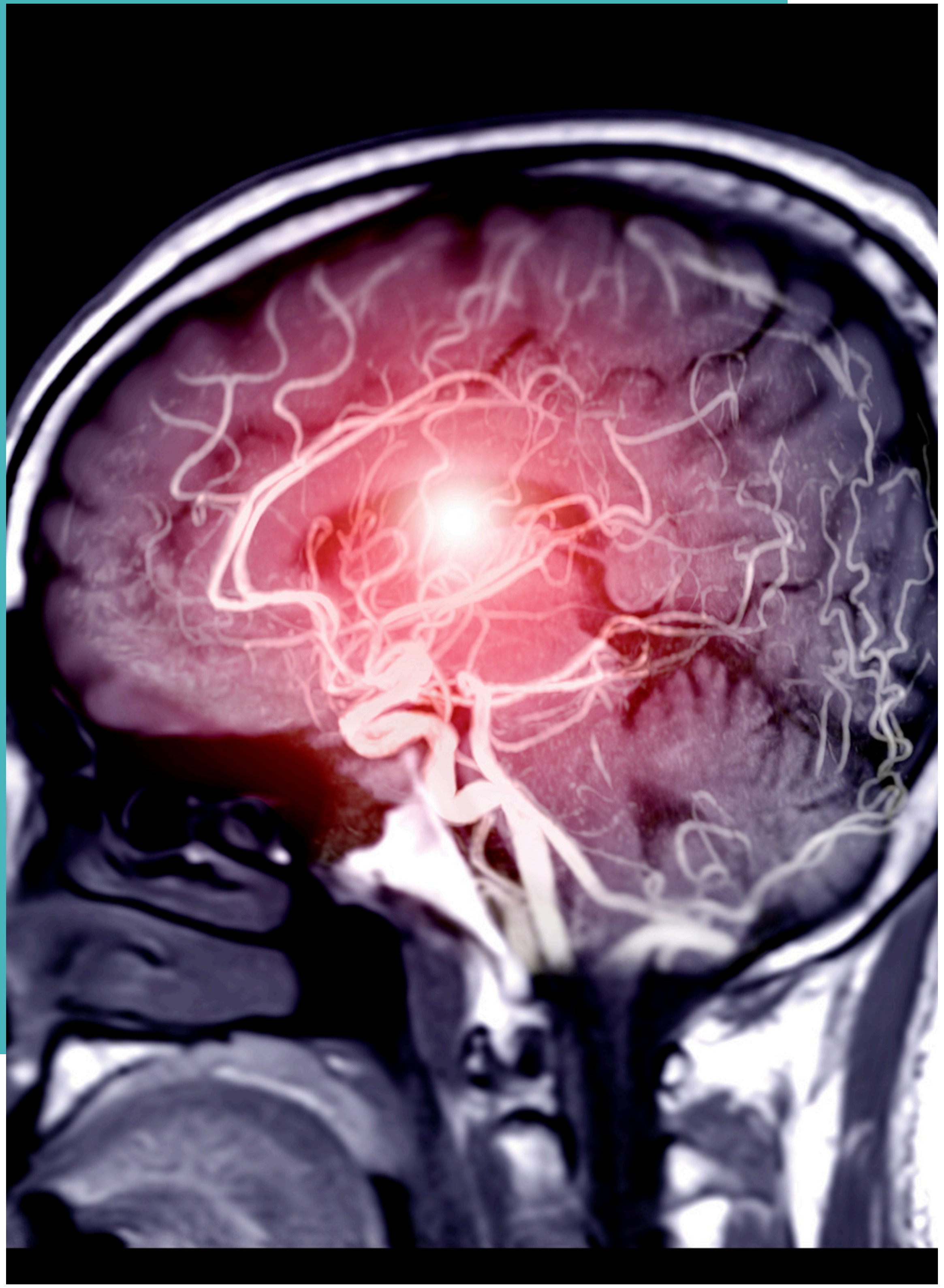
Wilms Tumor

- Wilms tumor is a type of kidney cancer that mainly affects children.
- It is also called nephroblastoma.
- Most cases occur in children younger than 5 years.
- It usually begins in one kidney but can occasionally affect both kidneys.
- Early diagnosis and appropriate treatment can lead to favorable outcomes.

What Causes Wilms Tumor?

- The exact cause is not known in most children.
- It develops when certain kidney cells grow and divide abnormally.
- Some cases are linked to genetic or developmental changes.
- Certain inherited conditions can increase the risk.
- Family history may play a role in a small number of cases.



Common Signs & Symptoms

- A noticeable lump or swelling in the abdomen
- Abdominal pain or discomfort
- Blood in the urine
- Fever without an obvious cause
- Loss of appetite or unexplained weight loss
- Nausea or vomiting
- High blood pressure in some children

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How Is Wilms Tumor Diagnosed?

- Physical examination: Checking for abdominal swelling or other concerns.
- Ultrasound: Helps identify a mass in the kidney.
- CT or MRI scans: Provide detailed information about the tumor and surrounding structures.
- Blood and urine tests: Help assess overall health and kidney function.
- Additional testing may be recommended to determine the tumor's characteristics and stage.

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Treatment Options

- Treatment depends on the tumor's stage, size, location, and overall health of the child.
- Surgery: May be performed to remove the affected kidney and tumor.
- Chemotherapy: Uses medicines to destroy cancer cells and may be given before or after surgery.
- Radiation therapy: May be recommended for selected higher-risk or advanced cases.
- Treatment is often planned by a multidisciplinary pediatric cancer team.
- Regular follow-up is important after treatment.

Recovery & Long-Term Care

- Many children with Wilms tumor respond well to modern treatment.
- Follow-up visits help monitor recovery and detect any recurrence early.
- Doctors may monitor kidney function, growth, blood pressure, and overall development.
- Emotional and nutritional support can help children and families during recovery.
- With timely diagnosis, expert care, and appropriate treatment, children can move toward a healthier future.

THANK YOU

VERY MUCH

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